



Essex Flood Services successfully deliver a wide range of flood risk management functions.

Local Flood Risk Management Strategy



Essex Flood Services has grown as a proactive commercial flood risk service provider.



How we manage local flooding in Essex

Flooding can be a complicated problem, often involving many different people and organisations. Despite the challenges, we are positive and clear about how we are managing the issue and want to share with you how we are making things better.

We have focused on sharing real stories from around the County showing exactly how our work happens and how easy it can be for you to help us make a difference.

First and foremost we want you to be informed about the risk of flooding to you and your property. Every year we are involved in helping more families from flooded homes, so please check your address on our flood map and talk to us if you need more information:

www.essex.gov.uk/flooding

The Flood and Water Management Act states that Essex County Council has to put in place a local flood risk management strategy.

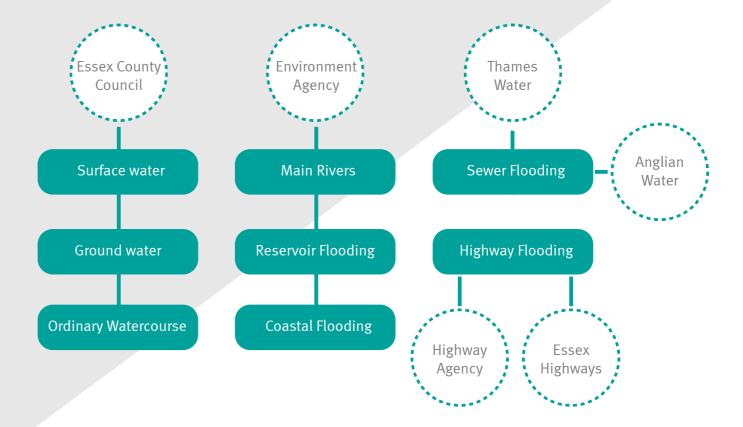
This strategy sets out our aims and actions to reduce the impact of local flooding to your community.

'Local' flooding in Essex means the risk of water from man-made drainage systems, small watercourses and rainfall off the land.

Who we work with

Local flooding isn't the only type faced by Essex communities. Flooding from our major rivers and the sea have been devastating for large areas of the County in the past. The risks of these widespread events are managed by the Environment Agency. Essex Highways, the water companies and local councils also have a part to play in how we deal with water. The diagram opposite shows which authority is responsible for various types of flooding.





We understand that the type of flooding doesn't really matter when you're in need of our help. The authorities will always work with each other when flooding happens.

To prepare for how we deal with future flooding, we hold regular meetings at County Hall to discuss the decisions and actions of each organisation. It is important to understand which cases are considered a priority for each authority as this can sometimes differ. These meetings involve all the partners. Elected members also attend our Essex Flood Partnership Board representing their residents and local councils. The group is called the 'Essex Flood Partnership Board', and discussions and decisions made here about our plans can be found here.

https://cmis.essexcc.gov.uk/essexcmis5/Committees/tabid/94/ctl/ViewCMIS_CommitteeDetails/mid/483/id/145/Default.aspx

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What we would like to do

Our ambition is to ensure that Essex is a great place to live and work. We want to enhance the environment here, and create a place that is safe and sustainable. In terms of flooding, this means that you are informed about your flood risk, and understand why flooding is a problem for us all, and what is being done to manage it.

These are the nine objectives that have always been important to us and our residents:

- To provide a clear explanation of everyone's responsibilities.
- To make sure people understand their risk of flooding and think about how we communicate this.
- To explain how we assess flood risk in Essex and then prioritise the work we do.
- To clearly set out our work so that communities and businesses can make decisions about how they also manage flood risk.

- To ensure that planning decisions properly consider flooding and the future impact of any development.
- To state how we share information and work with other authorities.
- To ensure that emergency plans and responses to flood incidents are effective and that communities are prepared for flooding.
- To encourage innovative new thinking, considering community needs, while working with the existing natural and built environment.
- To highlight where further detailed information and legislation regarding flooding can be found.



How and when we will do it

Having told you what we'd like to do, we want to show how our work is helping us to achieve this. As a priority we will help anyone who has been affected by flooding within their property.

Day to day when it's not flooding, we're doing a lot to try to prepare and protect for the next flood.

In this section we will set out the measures we have in order to achieve our objectives. Our flood services have come a long way since we became responsible for local flooding in 2010. We continue to develop each year, working with more residents, communities and partners to protect property and make positive changes.

Our measures:

- Investigating Floods
- 2. Mapping local routes for water
- 3. Looking after our watercourses
- 4. Planning for future floods
- 5. Influencing new development and drainage
- 6. Building flood defences
- 7. What more can you do?

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Measure 2: Mapping local routes for water

Case Study: Sturmer Village

The village of Sturmer in Essex had suffered from persistant surface water flooding, and Essex wanted to help. We contacted the parish council and invited them to take part in the Where Does Water Go project to survey their ditches, noting their location, condition, photos and measurements.

The community successfully found a group of willing volunteers to do the surveying, and with materials and training provided by the Floods Team they surveyed the village ditches and marked them all on maps.

The ditches and pipes which they surveyed were added to the Flood Asset Register which was really helpful for us to understand the drainage systems in Sturmer. Any problems such as blocked ditches were passed on to our Watercourse Engineer to investigate to ensure that the watercourses in this area were working to their full capacity.

This information has also been used in our flood modelling and to investigate possible future Flood alleviation schemes.

Another of our duties is to keep a record of structures or features that form part of local drainage systems. These can be things such as pipes, bridges or raised banks, which occur on local routes for water. These can have a big impact on local flooding.

and keep details about their ownership and condition. The record must be available for the public to view. For Essex it can be accessed through the online map at www.essex.gov.uk/flooding

There are already 10,000 records on our database, these numbers have been built up through our flood planning work, but we are also asking for communities to help us gather more. We run a project called 'Where Does Water Go?' with Parish Councils and Flood Action Groups. In this project we provide volunteers with the tools for surveying and recording We record both old or new features their local drainage. In the process we can assist sharing information about maintenance and responsibility to help make sure local routes for water are clear. We also provide a digital map of the drainage for future reference.



Measure 4: Planning for future floods



Thinking about how we manage a flood that might happen in the future requires some technical help. We have to create computer generated mock-ups of all possible scenarios. Our computer models will include accurate levels from the lay of the land, they map the buildings the soil types and the drainage locations, all to create the best representation of reality. A simulation then acts out very heavy rainfall for different lengths of time onto each location, giving us a look

at the worst-case scenario. We use flood models where there is potential for most people to be affected by flooding. Finding out where most people are affected is something an initial study called a Preliminary Flood Risk Assessment (PFRA) does. We have to carry the PFRA assessment out every six years. In locations where more than 500 properties could be at risk, we then will carry out a Surface Water Management Plan.

Case Study: Surface Water Management Plans

Surface Water Management Plan (SWMP) is a study that looks more specifically at what can be done to help flooding in an area. All the agencies we work with are involved in writing this.

The plans can help us make decisions about:

- Emergency and evacuation plans
- Future housing and development locations
- Where it's important to keep watercourses clear
- Where money and new infrastructure may be needed to help
- Where it may be safe to divert or store Epping, Loughton, Buckhurst Hill floodwater

- Where people will need to consider flooding a priority
- Informing and helping the community

Surface Water Management Plans have been carried out in:

- Chelmsford
- Maldon
- Harlow
- Brentwood
- Basildon
- Rochford
- Castle Point
- Colchester
- and Theydon Bois
- Braintree and Witham



In responding to planning applications, we want to ensure that the increased risk of surface water flooding is lessened by promoting sustainable drainage (SuDs) within the development. As well as ensuring that proposal meets the requirements within national and local standards.

Sustainable Drainage such as those features set out in the drawing below aim to reflect natural drainage. Further information on the design of SuDs features can be found in our SuDs Design Guide at:

www.essex.gov.uk/flooding



Measure 7: What can you do?

Apply for a Community Grant

Community Flood Improvement Fund

We hear from many communities that feel a solution to their flooding problem could be a simple and low-cost one. This grant has been enabling communities to put plans or schemes into action, and reduce flood risk to properties or businesses within their local area. Projects to protect homes are given a priority, but if you have an idea then talk to your local or parish council about supporting your application.

We will consider applications from the following groups:

- Town and parish councils
- Community groups
- District, Borough and City Councils
- Landowners and farmers
- Charities and voluntary organisations
- Conservation bodies
- Other Flood Risk
 Management Authorities in Essex



Property Level Resilience Grant

With our Property Level Resilience (PLR) Grant you can get up to £5000 to protect your property against flooding. Since 2014, our PLR Grants have been made available to Essex residents who have experienced flood water entering their property. Successful applicants have had practical resilience measures installed, such as self-closing air bricks, reinforced flood doors, non-return valves, pumps and flood barriers. We have made sure the process is as simple as possible for those in need of our help and the scheme has received national praise for its success.

To find out more and how to apply for funding visit www.essex.gov.uk/flooding

What more can you do?

Volunteer with us

Community ditch maintenance

One way we try and reduce local flood risk is through volunteer ditch clearance events. For the last couple of years, Essex County Council has teamed up with local residents and volunteers to assist landowners maintain streams and ditches in their area.

These events are not only a great way to meet our residents, but also enable us to educate them about flood risk and help build community resilience whilst directly protecting properties from flooding.

Case Study: Wivenhoe

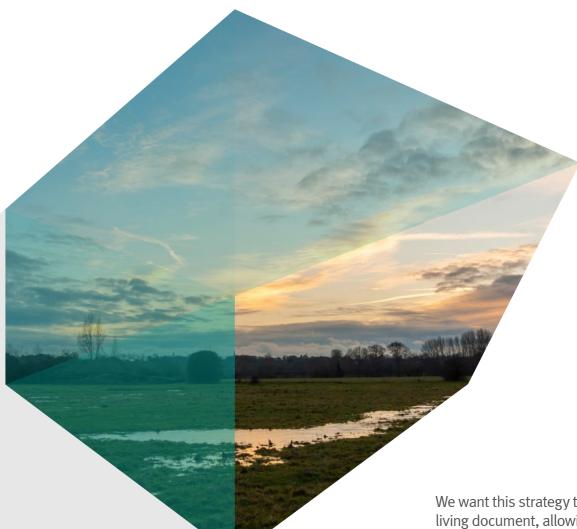
One of our recent events took place at St Johns Road, Wivenhoe. After a few hours of growing number of Essex vegetation clearance and de-silting, the watercourse was looking to get involved in the transformed from an impassable bog into a clear, free-flowing channel, both increasing its capacity and efficiency and reducing local flood risk to properties.

We are always looking for more volunteers and have a County Council colleagues future. More information can be found on our website www.essex.gov.uk/flooding









We want this strategy to be a simple living document, allowing you to find detailed information via existing links and make further contact where you have interest to do so.

Our Essex Flood Partnership will review and comment on this strategy, in line with our statutory and government flood investment programme timescales (6 year cycle). The Environment Agency make annual checks to ensure that Lead Local Flood Authorities like Essex County Council are delivering their statutory duties.

For further information please contact floods@essex.gov.uk

This document is issued by: Flood and Water management Team **Place Services Essex County Council**

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The information contained in this document can be translated, and/or made available in alternative formats, on request.

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